Welcome to STN International! Enter x:x

LOGINID:ssspta1200exs

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced

NEWS EXPRESS	February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

result in loss of user privileges and other penalties.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:45:18 ON 06 SEP 2002

=> le reg
LE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:45:29 ON 06 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 5 SEP 2002 HIGHEST RN 447396-35-2
DICTIONARY FILE UPDATES: 5 SEP 2002 HIGHEST RN 447396-35-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10004101.str

L1 STRUCTURE UPLOADED

=> is l1
IS IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l1
SAMPLE SEARCH INITIATED 15:45:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 53 TO ITERATE

100.0% PROCESSED 53 ITERATIONS 2 ANSWERS

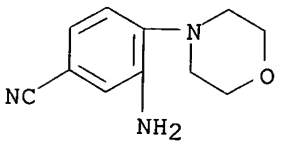
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 624 TO 1496
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d l2 1-2

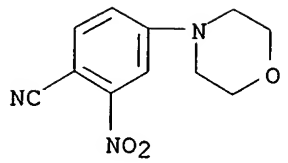
L2 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 59504-49-3 REGISTRY
CN Benzonitrile, 3-amino-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzonitrile, 3-amino-4-morpholino- (7CI)
FS 3D CONCORD
MF C11 H13 N3 O
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 28340-71-8 REGISTRY
CN Benzonitrile, 4-(4-morpholinyl)-2-nitro- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzonitrile, 4-morpholino-2-nitro- (8CI)
OTHER NAMES:
CN 2-Cyano-5-morpholino-1-nitrobenzene
CN 2-Cyano-5-morpholinonitrobenzene
FS 3D CONCORD
MF C11 H11 N3 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s l1 full
FULL SEARCH INITIATED 15:46:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 980 TO ITERATE

100.0% PROCESSED 980 ITERATIONS 44 ANSWERS
SEARCH TIME: 00.00.01

L3 44 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	143.82	144.03

FILE 'CAPLUS' ENTERED AT 15:46:57 ON 06 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 6 Sep 2002 VOL 137 ISS 11
FILE LAST UPDATED: 5 Sep 2002 (20020905/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s l3
L4          68 L3

=> s transition metal complex
        761328 TRANSITION
       1357070 METAL
       1021530 COMPLEX
L5        8608 TRANSITION METAL COMPLEX
                 (TRANSITION(W)METAL(W)COMPLEX)

=> s l4 and l5
L6           1 L4 AND L5

=> d l6 ibib abs hitstr

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         1981:596503  CAPLUS
DOCUMENT NUMBER:          95:196503
TITLE:                    Phthalocyanines and related compounds.  XIX.  Tetra-
                          and octaamino-substituted phthalocyanines
AUTHOR(S):                Mikhalenko, S. A.; Derkacheva, V. M.; Luk'yanets, E.
                          A.
CORPORATE SOURCE:         Nauchno-Issled. Inst. Org. Poluprod. Krasitelei,
                          Moscow, USSR
SOURCE:                   Zh. Obshch. Khim. (1981), 51(7), 1650-7
                          CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE:            Journal
LANGUAGE:                 Russian
GI
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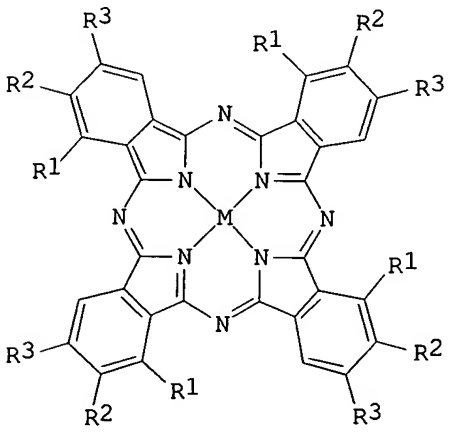
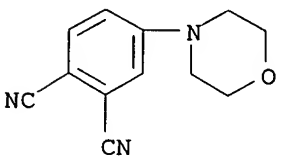


I

AB Dialkylamino-substituted phthalonitriles were prepd. and they reacted with metal salts in the presence of urea to give I (R1 = R3 = H, R2 = NH2 or R2 = H, R3 = tert-Bu, R1 = NO2, NH2, M = Cu, VO, Co; R2 = R3 = H, R1 = NMe2 or R1 = H, R2 = R3 = NMe2, M = Co, VO; R1 = R3 = H, R2 = piperidyl, M = VO, Co; R2 = H, R3 = tert-Bu, R1 = NMe2, M = Cu, Zn, VO, Co). The

complexes and phthalonitriles were characterized by electronic spectra.

IT **79319-36-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 79319-36-1 CAPLUS
CN 1,2-Benzenedicarbonitrile, 4-(4-morpholinyl)- (9CI) (CA INDEX NAME)




```
=> s transition metal catalyst
        761328 TRANSITION
       1357070 METAL
        596748 CATALYST
L7        2292 TRANSITION METAL CATALYST
                (TRANSITION(W)METAL(W)CATALYST)

=> s l4 and l7
L8           4 L4 AND L7

=> d l8 1-4 ibib abs hitstr

L8   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         2002:122863  CAPLUS
DOCUMENT NUMBER:          136:185757
TITLE:                    Catalyst for aromatic or vinylic C-O, C-N, and C-C
                          bond formation
INVENTOR(S):              Hartwig, John F.; Shelby, Quinetta; Kataoka, Noriyasu
PATENT ASSIGNEE(S):       Yale University, USA
SOURCE:                   PCT Int. Appl., 78 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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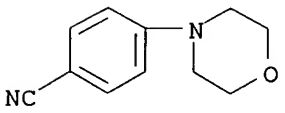
     WO 2002011883      A1   20020214      WO 2001-US24633  20010806
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
```

PRIORITY APPLN. INFO.: US 2000-223507P P 20000807
US 2001-922525 A 20010803
OTHER SOURCE(S): MARPAT 136:185757
AB A **transition metal catalyst**, comprises a Group 8 metal and a ferrocenyl ligand having PR2 and/or R2m, and R1n substitution, where R, R1 and R2 = org. groups having 1-15 C atoms, n = 1-5, and m = 0-4. The catalyst and the method of using the catalyst are advantageous in prepn. of compds. under mild conditions of approx. room temp. and pressure.
IT **10282-31-2P**, N-(4-Cyanophenyl)morpholine
RL: IMF (Industrial manufacture); PREP (Preparation)
(catalyst for arom. or vinylic C-O, C-N, and C-C bond formation under mild conditions)
RN 10282-31-2 CAPLUS
CN Benzonitrile, 4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:772171 CAPLUS
DOCUMENT NUMBER: 135:318588
TITLE: Biaryl phosphine and amine ligands for improved transition metal-catalyzed processes
INVENTOR(S): Buchwald, Stephen L.; Old, David W.; Wolfe, John P.; Palucki, Michael; Kamikawa, Ken
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: U.S., 55 pp., Cont.-in-part of U.S. Ser. No. 113,478.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

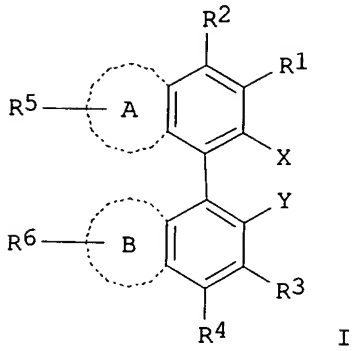
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6307087	B1	20011023	US 1999-231315	19990113
US 6395916	B1	20020528	US 1998-113478	19980710
WO 2000002887	A2	20000120	WO 1999-US15450	19990709
WO 2000002887	A3	20000629		
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1097158	A2	20010509	EP 1999-933785	19990709
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002520328	T2	20020709	JP 2000-559117	19990709

PRIORITY APPLN. INFO.: US 1998-113478 A2 19980710

US 1998-196855 A 19981120
US 1999-231315 A 19990113
US 1999-239024 A 19990127
WO 1999-US15450 W 19990709

OTHER SOURCE(S): CASREACT 135:318588; MARPAT 135:318588

GI



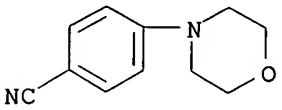
I

AB The present invention relates to the prepn. of novel biaryl phosphine and amine ligands (I) [wherein A and B = independently fused monocyclic or polycyclic cycloalkyl, cycloalkenyl, aryl, or heterocyclic rings of 4-8 atoms; X = NR2, PR2, AsR2, OR, or SR; Y = NR2, PR2, AsR2, OR, SR, SiR3, alkyl, or H; R-R6 = independently H, halogen, (hetero)alkyl, alkenyl, alkynyl, hydroxy, alkoxy, silyloxy, amino, nitro, sulfhydryl, amide, carbonyl, ketone, anhydride, silyl, thioalkyl, ketone, ester, nitrile, (hetero)aryl, etc.] for transition metals and their use in metal-catalyzed carbon-heteroatom and carbon-carbon bond-forming reactions. Unexpected improvements over the prior art were demonstrated in transition metal-catalyzed aryl amination reactions, Suzuki couplings giving both biaryl and alkylaryl products, arylations and vinylations at the position .alpha. to carbonyl groups, and carbon-oxygen bond formation. The ligands and methods of the invention enable transformations utilizing aryl chlorides and bromides at room temp. at synthetically useful rates with extremely small amts. of catalyst relative to the limiting reagent. For example, coupling of p-chlorobenzonitrile and morpholine was catalyzed by 2.5 mol% Pd2(dba)3, 7.5 mol% of 2-(N,N-dimethylamino)-2'-(dicyclohexylphosphino)biphenyl, and NaOBu-t in DME at room temp. to provide 4-(4-morpholinyl)benzonitrile in 96% yield. Thus, the subject processes provide improvements in many features of the transition metal-catalyzed reactions, including the range of suitable substrates, reaction conditions, and efficiency.

IT **10282-31-2P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(biaryl phosphine and amine ligands for improved transition metal-catalyzed processes)

RN 10282-31-2 CAPLUS

CN Benzonitrile, 4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



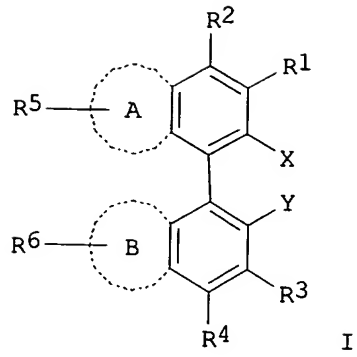
REFERENCE COUNT: 131 THERE ARE 131 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:53646 CAPLUS
DOCUMENT NUMBER: 132:108101
TITLE: Biaryl phosphine and amine ligands for improved transition metal-catalyzed processes
INVENTOR(S): Buchwald, Stephen; Old, David W.; Wolfe, John P.; Palucki, Michael; Kamikawa, Ken; Chieffi, Andrew; Sadighi, Joseph P.; Singer, Robert A.; Ahman, Jens
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 397 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000002887	A2	20000120	WO 1999-US15450	19990709
WO 2000002887	A3	20000629		
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6395916	B1	20020528	US 1998-113478	19980710
US 6307087	B1	20011023	US 1999-231315	19990113
EP 1097158	A2	20010509	EP 1999-933785	19990709
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002520328	T2	20020709	JP 2000-559117	19990709

PRIORITY APPLN. INFO.:
US 1998-113478 A 19980710
US 1998-196855 A 19981120
US 1999-231315 A 19990113
US 1999-239024 A 19990127
WO 1999-US15450 W 19990709

OTHER SOURCE(S): MARPAT 132:108101
GI



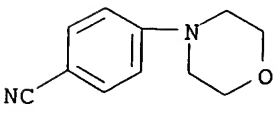
I

AB The present invention relates to the prepn. of novel biaryl phosphine and amine ligands (I) [wherein A and B = independently fused monocyclic or polycyclic cycloalkyl, cycloalkenyl, aryl, or heterocyclic rings of 4-8 atoms; X = NR2, PR2, AsR2, OR, or SR; Y = NR2, PR2, AsR2, OR, SR, SiR3, alkyl, or H; R-R6 = independently H, halogen, (hetero)alkyl, alkenyl, alkynyl, hydroxy, alkoxy, silyloxy, amino, nitro, sulfhydryl, amide, carbonyl, ketone, anhydride, silyl, thioalkyl, ketone, ester, nitrile, (hetero)aryl, etc.] for transition metals and their use in metal-catalyzed carbon-heteroatom and carbon-carbon bond-forming reactions. Unexpected improvements over the prior art were demonstrated in transition metal-catalyzed aryl amination reactions, Suzuki couplings giving both biaryl and alkylaryl products, arylations and vinylations at the position .alpha. to carbonyl groups, and carbon-oxygen bond formation. The ligands and methods of the invention enable transformations utilizing aryl chlorides and bromides at room temp. at synthetically useful rates with extremely small amts. of catalyst relative to the limiting reagent. For example, coupling of p-chlorobenzonitrile and morpholine was catalyzed by 2.5 mol% Pd2(dba)3, 7.5 mol% of 2-(N,N-dimethylamino)-2'-(dicyclohexylphosphino)biphenyl, and NaOBu-t in DME at room temp. to provide 4-(4-morpholinyl)benzonitrile in 96% yield. Thus, the subject processes provide improvements in many features of the transition metal-catalyzed reactions, including the range of suitable substrates, reaction conditions, and efficiency.

IT **10282-31-2P**, N-(4-Cyanophenyl)morpholine
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthetic product; prepn. of biaryl phosphine and amine ligands for improved palladium-catalyzed amination reactions, Suzuki couplings, arylations, vinylations, and carbon-oxygen bond formation reactions)

RN 10282-31-2 CAPLUS

CN Benzonitrile, 4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:650086 CAPLUS
DOCUMENT NUMBER: 129:275692
TITLE: Metal-catalyzed amination of organic sulfonates to organic amines
INVENTOR(S): Hartwig, John F.; Driver, Michael S.; Louie, Janis; Hamann, Blake
PATENT ASSIGNEE(S): Yale University, USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

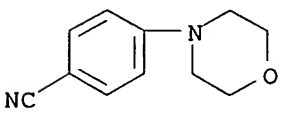
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5817877	A	19981006	US 1997-933658	19970919

OTHER SOURCE(S): MARPAT 129:275692

AB A process of prepg. an org. amine having at least one unsatd. group, such as an arylamine, involving contacting an unsatd. org. sulfonate, such as an aryl sulfonate, with a reactant amine, such as an alkyl or aryl amine, in the presence of a base and a **transition metal catalyst** under reaction conditions. The **transition metal catalyst** contains a Group 8 metal and a chelating ligand, for example a Group 15-substituted arylene or Group 15-substituted metallocene, such as 1,1'-bis(diphenylphosphino)-2,2'-binaphthyl or 1,1'-bis(diphenylphosphino)ferrocene, resp. The aryl sulfonate can be prepd. from a phenol and sulfonating agent. E.g., treatment of 4-biphenyl triflate with aniline and NaOBu-tert in the presence of bis(dibenzylideneacetone)palladium and 1,1'-bis(diphenylphosphino)ferrocen e in toluene gave 99% 4-PhC6H4NHPh. Among the approx. 20 compds. similarly prepd. were 94% 4-MeOC6H4NHPh, 95% 2-MeC6H4NHPh, 98% N-phenyl-2-naphthylamine, 95% 4-NCC6H4NHBu, and 91% 2-morpholinonaphthalene.

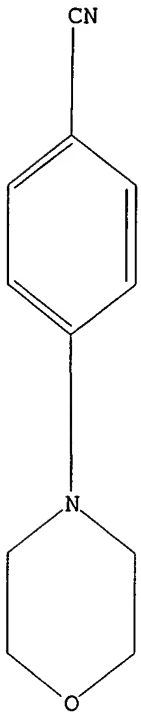
IT **10282-31-2P**, 4-(4-Cyanophenyl)morpholine
RL: SPN (Synthetic preparation); PREP (Preparation)
(transition metal-catalyzed amination of org. sulfonates to org. amines)

RN 10282-31-2 CAPLUS
CN Benzonitrile, 4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



=> d l1
L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.27	179.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.10	-3.10

STN INTERNATIONAL LOGOFF AT 15:52:37 ON 06 SEP 2002